WHAT IS CLAIMED IS:

- A method for preparing a carbon with enhanced electronic conductivity
 comprising
 oxidatively polymerizing with an oxidizing agent comprising ozone a monomer
 of a conducting polymer containing hetero atoms with particulate carbonaceous
 material to form a conducting polymer-grafted carbonaceous material.
- 2. The method of claim 1, wherein the carbonaceous material is carbon black, graphite, nanocarbons, fullerenes, fullerinic material, finely divided carbon, or mixtures thereof.
- 3. The method of claim 1, wherein the carbonaceous material is carbon black.
- 4. The method of claim 1, wherein the monomer of a conducting polymer is an amino aryl or a nitrogen heterocycle.
- 5. The method of claim 1, wherein the oxidatively polymerizing comprises adding ozone to a mixture of the carbonaceous material and the monomer of the conducting polymer.
- 6. The method of claim 5, wherein the mixture of the carbonaceous material and the monomer of the conducting polymer further comprises an acid solvent to form a slightly acidic environment.
- 7. The method of claim 6, wherein the slightly acidic environment is a pH of about less than 7.
- 8. The method of claim 6, wherein the slightly acidic environment is a pH of about 3 to about 4.
- 9. The method of claim 1, wherein the conducting polymer is polyaniline, polypyrrole, polyfuran, polythiophene, poly(p-phenylene-oxide), poly(p-phenylene-sulfide), substituted conducting polymers, or a mixture thereof.
- 10. The method of claim 1, further comprising metallizing the conducting polymergrafted carbonaceous material.

ATTORNEY DOCKET NO. 03234.0017U3

- 11. The method of claim 10, wherein the metallizing comprises adding a metalcontaining material to the conducting polymer-grafted carbonaceous material.
- 12. The method of claim 11, wherein the metallizing further comprises adding a reducing agent.
- 13. The method of claim 10, wherein the metallizing is plantinizing.
- 14. The method of claim 12, wherein the reducing agent is formaldehyde, sodium borohydride, hydrogen, hydrazine, hydroxyl amine, or a mixture of reducing agents.
- 15. The method of claim 11, wherein the metal-containing material is chloroplatinic acid, platinum nitrate, platinum halides, platinum cyanide, platinum sulfide, organoplatinum salts, or a mixture thereof.
- 16. A composition made by the method of claim 1.